STEREO INTEGRATED AMPLIFIER

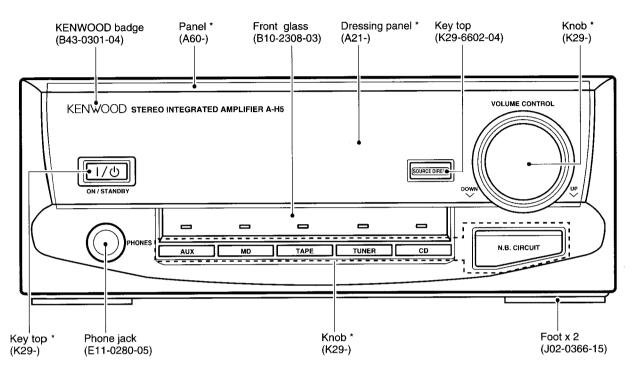
A-H5

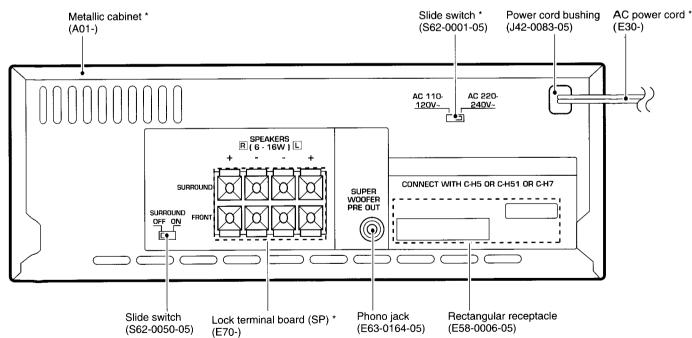
SERVICE MANUAL

(XD-6000/8000/9580 SERIES)

KENWOOD

© 1997-3/B51-5293-00 (K/K) 2578





* Refer to parts list on page 11.

Caution:

- 1. Use the power supply jig PS-94UA when a repair or action confirmation are done.
- 2. Set the input level to minimum before power on if supplying audio signal to A-H5.
- 3. Connect 56k-ohms resistor across connector CN19 if setting A-H5 to turn on by itself.
- 4. Connect C-H5,H6 or H7 to A-H5 if repairing control pcb (X07,B/7) in the A-H5.

A-H5

CONTENTS / ACCESSORIES

Contents

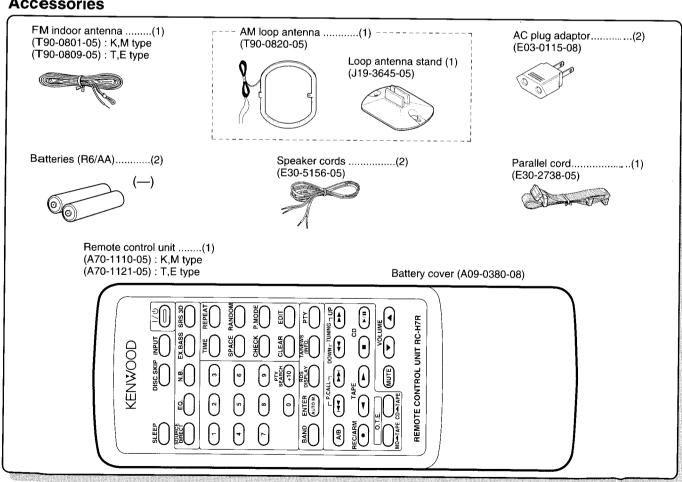
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System configuration

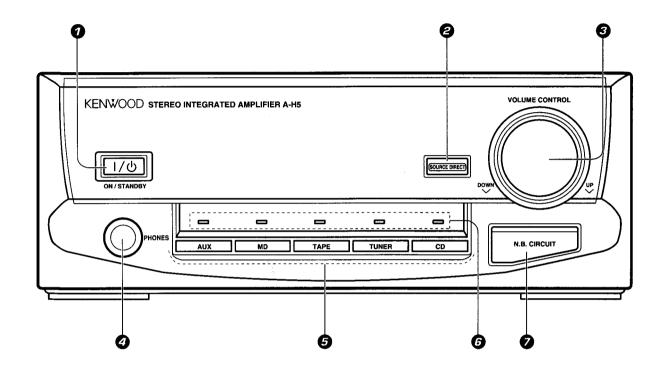
SYSTEM	TUNER / EQUALIZER	AMPLIFIER	CASSETTE DECK	CD PLAYER	SPEAKER	MD RECORDER
XD-6060	C-H51	A-H5	X-H5	DP-H5	LS-H6	
XD-6500	C-H5	A-H5	X-H5	DP-MH5	LS-H5	_
XD-6560	C-H51	A-H5	X-H5	DP-MH5	LS-H6	_
XD-8000	C-H6	A-H5	X-H5	DP-H5	LS-H6	_
XD-8550	C-H6	A-H5	X-H5	DP-MH5	LS-H6	_
XD-8560	C-H61	A-H5	X-H5	DP-MH5	LS-H6	
XD-6000/W	C-H5/W	A-H5	X-H5	DP-H5	LS-H5	
XD-6050/W	C-H5/W	A-H5	X-H5	DP-H5	LS-H5	
XD-6550/W	C-H5/W	A-H5	X-H5	DP-MH5	LS-H5	
XD-8050/W	C-H6/W	A-H5	X-H5	DP-H5	LS-H6	
XD-8500/W	C-H6	A-H5	X-H5	DP-MH5	LS-H6	
XD-9580MD	C-H7	A-H5	_	DP-MH5	LS-H6	DM-H5

Accessories



CONTROLS

Amplifier unit



② ON/STANDBY (I/也) key/Indicator

Power ON/OFF switching is executed.

The indicator in the key lights in green when the power is ON and in red when it is off (provided that the power cord is connected to a power outlet)

② SOURCE DIRECT key/Indicator

Press the key when you want to enjoy a purer sound.

O VOLUME CONTROL knob

Normally this is used for volume adjustment.

This control is also used to adjust the input level when the MD recorder or other external equipment is used.

O PHONES terminal

For connection of a headphone (optional).

6 Input key

Press to select the input source. When TAPE or CD is selected, playback starts automatically provided that a tape or disc has already been loaded.

@ Input indicators

The indicator corresponding to the currently selected input source lights up.

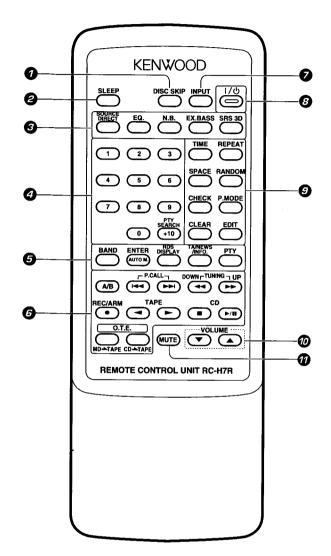
N.B. CIRCUIT key

Press to compensate for the lack of heavy bass sound which may occur during low-level listening.

A-H5

CONTROLS

Remote control unit



Model: RC-H7R Infrared ray system

O DISC SKIP key (For XD-8550)

Press to select the disc to be used for playback or recording.

② SLEEP key

Press to set the sleep timer function.

Tone control-related keys

SOURCE DIRECT key :

Press the key when you want to

enjoy a purer sound.

EQ. key:

Press before operating the equaliz-

er.

N.B key:

Press to compensate for the lack of

heavy bass sound which may occur

during low-level listening.

EX. BASS key:

Press to enhance the high and low

frequencies.

SRS 3D key:

Switches the SRS 3D play on and

off.

Numeric keys

Select a CD track or tuner stations.

Tuner-related keys

BAND key: ENTER/AUTO M. key: Press to switch the receiving band. Press when entering a station in

memory.

RDS DISPLAY key TA/NEWS/INFO. key

PTY key

6 General operation keys

A/B key: Press to select the deck to be operated.

P.CALL (I◄◄ ▶►) keys :

When the TUNER input is selected, used to recall a preset

station.

When the CD input is elected, used to skip tracks.

TUNING UP/DOWN (◀◀ ▶►) keys :

When the TUNER input is selected, used to receive a station. When the CD or TAPE input is selected, used to move the

played position in the forward or reverse direction. **REC/ARM (•) key:** Press to start recordin

Press to start recording. Pressing the key during recording stops it

after leaving a non-recorded space (blank) of about 4 seconds.

TAPE play (◀ ▶) keys

Stop (■) key

CD play/pause (►/II) key

O.T.E. MD - TAPE key: Press when copying sound from a

MD to a tape.

O.T.E. CD ⇒ TAPE key :

Press when copying sound from a

CD to a tape.

INPUT key

Press to select the input source to be played or recorded. This key has the same function as the input selector keys on the amplifier unit.

3 On/ standby (1/也) key

This key has the same function as the key with the same name on the amplifier unit.

9 CD applied operation-related keys

TIME key:

Press to switch the time information dis-

played on the CD player.

REPEAT key: SPACE key: Press to play CD track(s) repealedly.

F

Press during CD recording etc. to create a

non-recorded blank of a few seconds.

RANDOM key: Press to play tracks in a different order than

the recorded order.

CHECK key: Press to

Press to check the order of tacks which

have been programmed.

P.MODE key Pr

Press to switch the program n ode on-off. This key is also used when entering a track

the program

in the program.

CLEAR key:

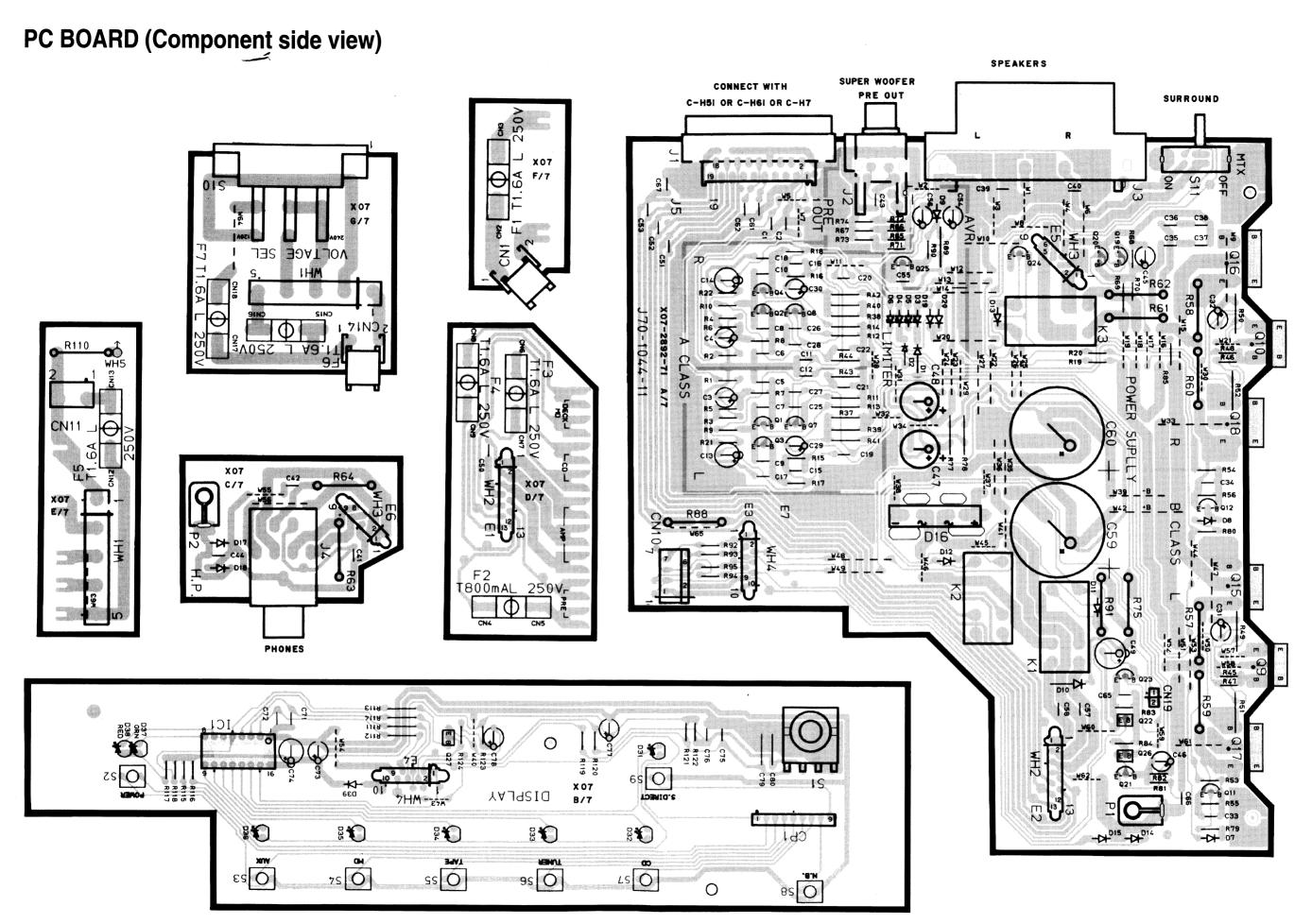
Press to clear a programmed track(s) Press when recording a CD.

EDIT key: Press when \bigcirc VOLUME CONTROL $(\nabla \triangle)$ keys

These keys have the same function as the VOLUME CONTROL

on the amplifier unit.

MUTE kev

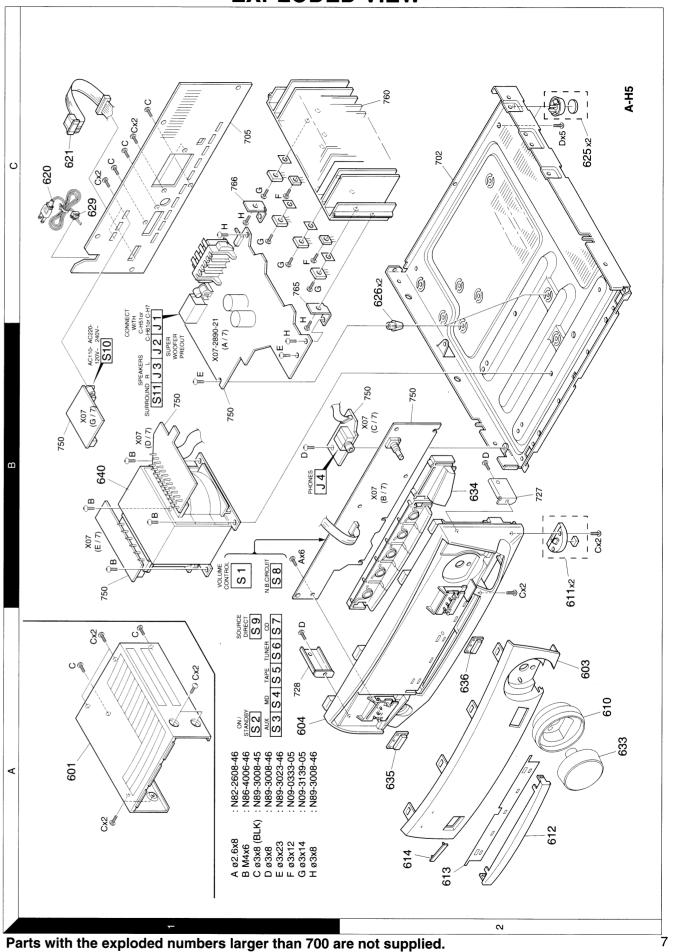


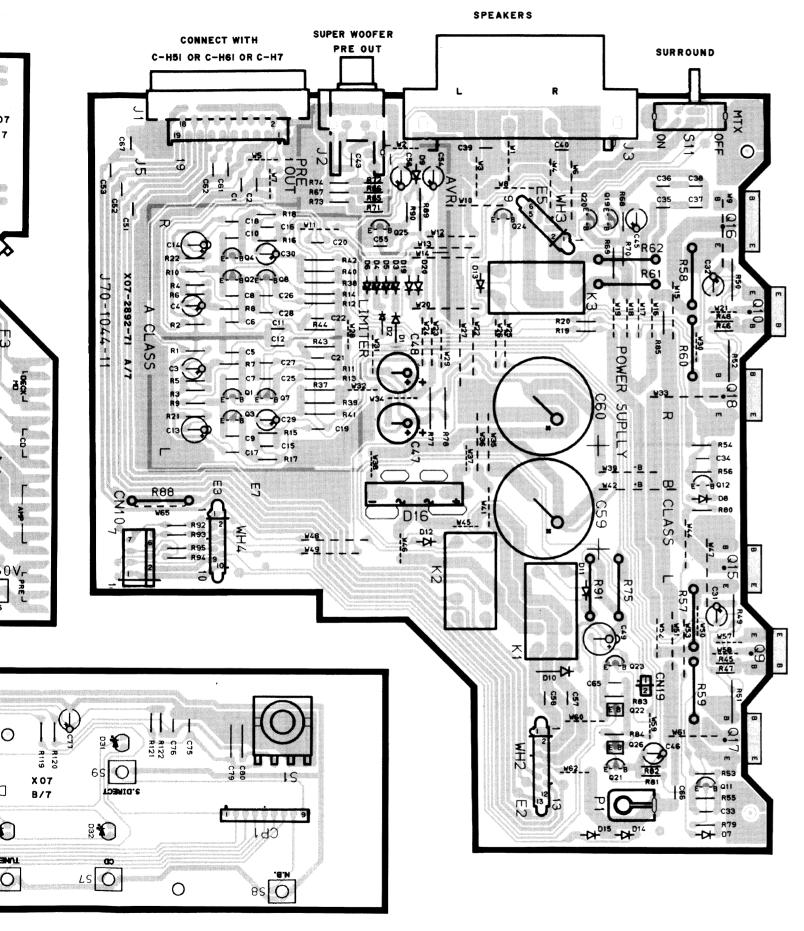
Refer to the schematic diagram for the values of resistors and capacitors.

Parts wi

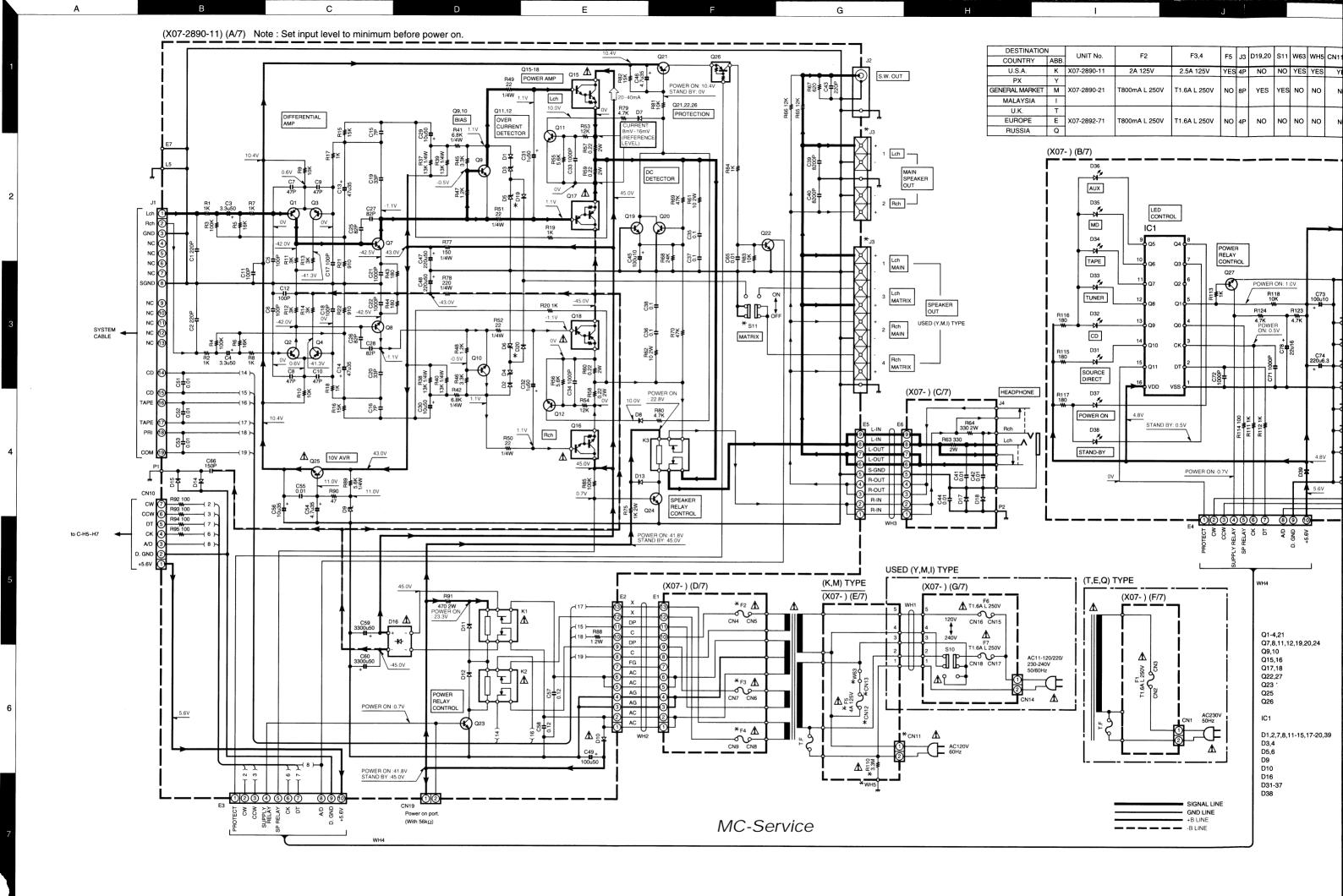
5

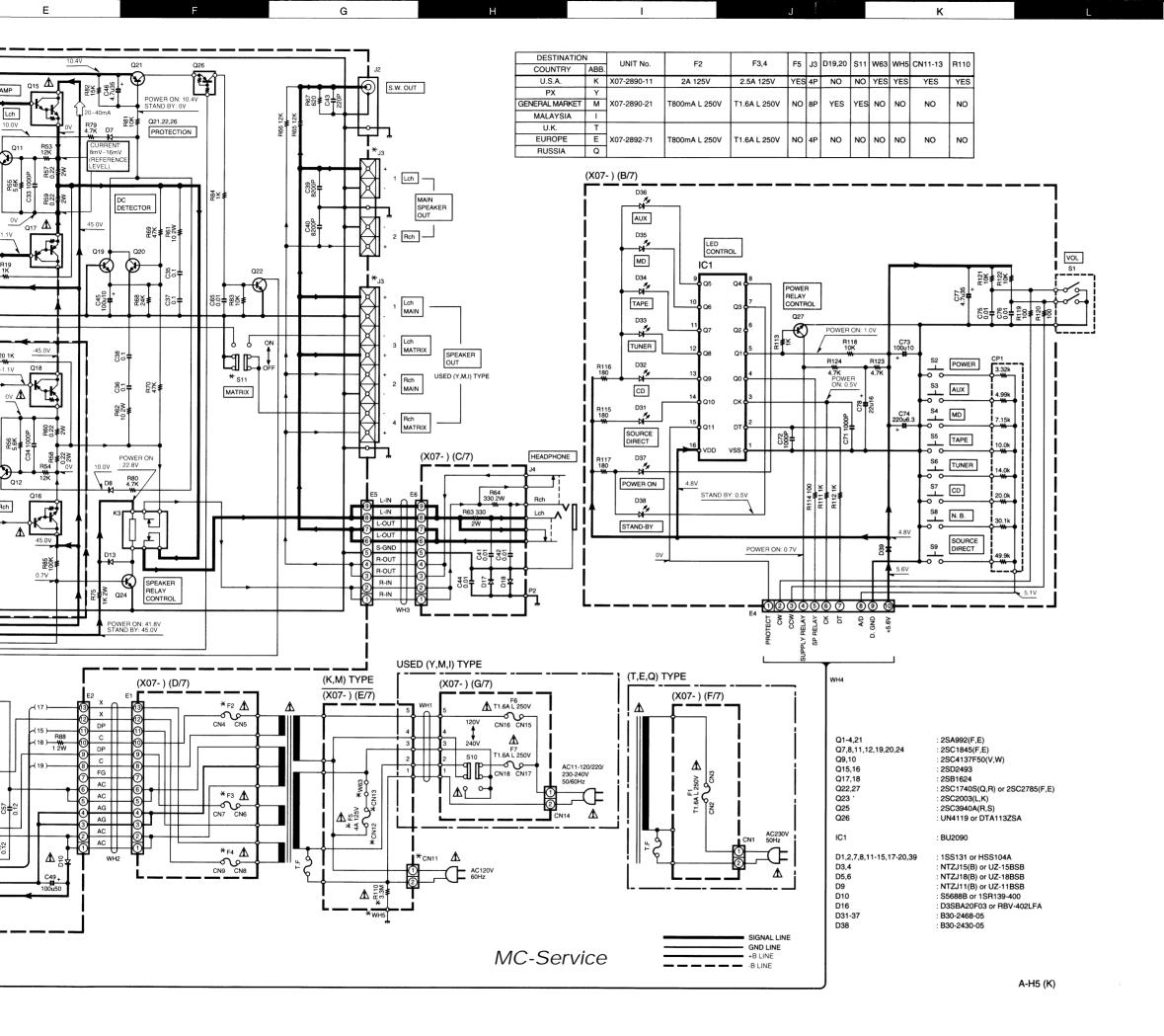
EXPLODED VIEW





MC-Service





2SA992 2SC1845 2SC2003 2SC3940A E C B 2SB1624 2SD2493 0

2SC2785



DTA113ZSA 2SC1740S



2SC4137F50



BU2090



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

Y08-5500-11



indicates safety critical components.

PARTS LIST

fournis.	
s No . ne sont pas fournis. art.	

Parts without Parts No. are not supplied. Les articles non mentionnes dans le Parts No. ne sont pas fournis. Telle ohne Parts No. werden nicht geliefert.
--

Ref. No	Add- ress	₹	Parts No.		Description	N. Carlot	Desti- nation
C13,14 C15,16 C17,18 C19,20 C21,22			CE04KW1V470M CC45FSL1H070D CC45FSL1H101J CC45FSL1H330J CK45FB1H102K	ELECTRO CERAMIC CERAMIC CERAMIC CERAMIC	47UF 7.0PF 100PF 33PF 1000PF	35W C X	
C25 -28 C29 ,30 C31 ,32 C33 ,34 C35 -38			CC45FSL1H820J CE04KW1H100M CE04KW1H010M CK45FB1H102K CF92FV1H104J	CERAMIC ELECTRO ELECTRO CERAMIC MF-C	82PF 10UF 1.0UF 1000PF 0.10UF	Sowv Sowv K	
C39 ,40 C41 ,42 C43 C44 C45			CQ93FMG1H822J CK45FF1H103Z CC45FSL1H221J CK45FF1H103Z CE04KW1A101M	MYLAR CERAMIC CERAMIC CERAMIC ELECTRO	8200PF 0.010UF 220PF 0.010UF 100UF	ر کا کا 1000 کا	
C46 C47,48 C49 C51 -53 C54			CE04KW1V4R7M CE04KW1H221M CE04KW1H101M CK45FF1H103Z CE04KW1V4R7M	ELECTRO ELECTRO ELECTRO CERAMIC ELECTRO	4.7UF 220UF 100UF 0.010UF 4.7UF	35WV 50WV 50WV 2 35WV	
C55 C56 C57,58 C59,60 C65		*	CK45FF1H103Z CE04KW1V100M CF92FV1H124J C90-3720-05 CK45FF1H103Z	CERAMIC ELECTRO MF-C ELECTRO CERAMIC	0.010UF 10UF 0.12UF 3300UF 0.010UF	2 35WV 50WV Z	
C66 C71,72 C73 C74 C75,76			CC45FSL1H151J CK45FB1H102K CE04KW1A101M CE04KW0J221M CK45FF1H103Z	CERAMIC CERAMIC ELECTRO ELECTRO CERAMIC	150PF 1000PF 100UF 220UF 0.010UF	J K 1000 6.300V	
C77 C78 CN1 CN10			CE04KW1V4R7M CE04KW1C220M E40-4632-05 E40-4297-05 E40-4245-05	ELECTRO ELECTRO PIN ASSY FLAT CABLE CON PIN ASSY	4.7UF 22UF CONNECTOR	35WV 16WV	X H
CN19			E40-4632-05 E40-4871-05	PIN ASSY PIN ASSY			₩ X
- 25524 - 25524			E58-0006-05 E63-0164-05 E70-0056-05 E70-0057-05 E11-0280-05	RECTANGULAR RECEPTACLE PHONO JACK (SUPER WOOFER) LOCK TERMINAL BOARD (SP) LOCK TERMINAL BOARD (SP) PHONE JACK (HEADPHONE)	RECEPTACL (SUPER W BOARD (SP BOARD (SP HEADPH	VOOFER)	YMI
FF22 83 4,4,			F05-1623-05 F05-8013-05 F50-0069-05 F05-1623-05 F50-0070-05	FUSE (SEMKO) FUSE (SEMKO) FUSE (SEMKO) FUSE (SEMKO) FUSE (SEMKO)	(250V T1.6AL) (250V T800MAL) (250V T1.6AL)	SAL) IOMAL) SAL)	TEQ YMITEQ XMITEQ
F5 F6 ,7			F50-0073-05 F05-1623-05	FUSE(5X20) FUSE (SEMKO)	(250V T1.6AL)	3AL)	χŽ
CN2 -9 CN4 -9 CN12,13 CN15-18 E7			J13-0075-05 J13-0075-05 J13-0075-05 J13-0075-05 J11-0808-05	FUSE CLIP FUSE CLIP FUSE CLIP FUSE CLIP WIRE CLAMPER			Z X Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
CP1 R49 -52		*	R90-0954-05 RD14NB2E220J	MULTIPLE RESISTOR RD	TOR 22	J 1/4W	

	rts No	, W.	arden r			1	· [.
ress	- 0-	2 E	Parts No.	De	Description	Desti- nation	Re. marks
				A-H5			
14 22 14 14		* * * * *	A01-3367-01 A01-3416-01 A21-1914-02 A21-1935-02 A60-1008-01	METALLIC CABINET (; METALLIC CABINET () DRESSING PANEL (SI DRESSING PANEL (BI PANEL	ET (SLVR) ET (BLK) (SLVR) (BLK) (BLK)	TEQ	
4		*	A60-1037-01	PANEL	(BLK)	TEQ	
22828 22828		* * * * *	B07-2331-03 B07-2332-03 B07-2335-04 B10-2308-03 B11-0348-04	ESCUTCHEON ESCUTCHEON ESCUTCHEON FRONT GLASS SMOKED FILTER	(SLVR) (BLK)	TEQ	
2A			B43-0301-04 B58-0513-04	KENWOOD BADGE CAUTION CARD	E (PRESET220-240)	_ >	
55555		*	E30-2592-15 E30-2605-05 E30-2650-05 E30-2829-05 E30-2847-05	AC POWER CORD AC POWER CORD AC POWER CORD AC POWER CORD CORD WITH CONNECTOR	VECTOR	Ö E O H E	
		* * * *	H10-7242-02 H10-7243-02 H10-7244-02 H10-7245-02 H25-0681-04	POLYSTYRENE FOAMED F POLYSTYRENE FOAMED F POLYSTYRENE FOAMED F POLYSTYRENE FOAMED F PROTECTION BAG	DAMED FIXTURE DAMED FIXTURE DAMED FIXTURE DAMED FIXTURE	KYMIEQ KYMIEQ ⊤	
		* * * *	H50-2142-04 H50-2143-04 H50-2144-04 H50-2328-04 H50-2355-04	ITEM CARTON CASE	SE SE (BLK) SE (SLVR) SE (BLK)	ŽΞ⊢⊢Ω̈́	
		*	H50-2356-04	ITEM CARTON CASE	SE (SLVR)	Ö	
222			J02-0366-15 J19-3752-14 J42-0083-05 J61-0307-05	FOOT UNIT HOLDER POWER CORD BUSHING WIRE BAND	SHING		
2888 2888 2888		* * * * *	K29-6486-04 K29-6600-04 K29-6488-02 K29-6601-02 K29-6559-04	KNOB KNOB KNOB KNOB KEY TOP	(SLVR) (BLK) (SLVR) (BLK)	TEQ A	
28 28		* *	K29-6712-04 K29-6602-04	KEY TOP KEY TOP		YMITEQ	10.11
⊕ ⊕ ⊕ ⊕		* * * *	L07-2227-05 L07-2228-05 L07-2239-05 L07-2232-05	POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER	AMER RMER RMER	⊢≻Ω⊼ ≅ E	
	1		POWER	ER (X07-2890	0-11)		
			B30-2468-05 B30-2430-05	LED LED(RED)			
			CC45FSL1H221J CE04KW1H3R3M CC45FSL1H101J CC45FSL1H470J CC45FSL1H470J	CERAMIC ELECTRO CERAMIC CERAMIC CERAMIC	220PF J 3.3UF 50WV 100PF J 47PF J 100PF J		
	1	1					7

50WV	l: Malaysia Q: Russia indicates safety
220PF 3.3UF 100PF 47PF 100PF	R: Mexico G: Germany
CERAMIC ELECTRO CERAMIC CERAMIC CERAMIC	P: Canada E: Europe M: Other Areas
221J 3R3M 101J 470J 101J	
CC45FSL1H221J CE04KW1H3R3M CC45FSL1H101J CC45FSL1H470J CC45FSL1H470J	K : USA T : Europe X : Australia
	waii)
	via ast, Hav urope)
C1 ,2 C3 ,4 C5 ,6 C7 -10 C11,12	L: Scandinavia Y: PX(Far East, Hawaii) Y: AAFES(Europe)

critical components.

A-H5

PARTS LIST

New Parts		Parts No.		Description		Desti- nation	Re- marks
441SR 441SR 441SR 441SR	RS14 RS14 RS14 RS14 RD14 RD14	RS14KB3DR22J RS14KB3D100J RS14KB3D331J RS14KB3D102J RD14NB2E151J	FL-PROOF RS FL-PROOF RS FL-PROOF RS FL-PROOF RS RD	0.22 10 330 1.0K	2W 2W 1/4W		
* RD14N * RD14N * RD14N RS14K R92-18	RD14N RS14K RD14N RS14K R92-18	RD14NB2E221J RS14KB3D1R0J RD14NB2E562J RS14KB3D471J R92-1844-05	RD FL-PROOF RS RD FL-PROOF RS CARBON	220 J 15.6K J 470 J 3.3M J	1/4W 2W 1/4W 2W 1/2W	×	
\$76-0060-05 \$76-0061-05 \$70-0031-05 \$62-0001-05 \$62-0050-05	\$76-006 \$76-006 \$70-003 \$62-000		MAGNETIC RELAY MAGNETIC RELAY TACT SWITCH SLIDE SWITCH SLIDE SWITCH	(VOLTAGE) (MATRIX)		MM YX	
T99-0559-05	T99-055	9-05	ROTARY ENCODER (VOLUME)	R (VOLUME)			
HSS104A 1SS131 MTZJ15(B) UZ-15BSB MTZJ18(B)	HSS104 1SS131 MTZJ15 UZ-15B% MTZJ18	A (B) (B) (B)	DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE				
UZ-18BSB HSS104A 1SS131 MTZJ11(B) UZ-11BSB	UZ-18B\$ HSS104 1SS131 MTZJ11 UZ-11B\$	88 A A 88 88	ZENER DIODE DIODE DIODE ZENER DIODE ZENER DIODE				
S5688B 1SR139-400 HSS104A 1SS131 D3SBA20F03	S5688B 1SR139- HSS104/ 1SS131 D3SBA2	400 A DF03	DIODE DIODE DIODE DIODE				
RBV-402LFA HSS104A 1SS131 HSS104A 1SS131	RBV-402 HSS104A 1SS131 HSS104A 1SS131	LFA	DOODE DOODE DOODE DOODE			KYK KYME TEO OO	
+SS104A 1SS131 8 BU2090 2SA992(F,E) 2SC1845(F,E)	HSS104A 1SS131 BU2090 2SA992(F 2SC1845		DIODE DIODE ANALOGUE IC TRANSISTOR TRANSISTOR				
2SC4137 2SC1845 2SD2493 2SB1624 2SC1845	2SC4137 2SC1845 2SD2493 2SB1624 2SC1845	2SC4137F50(V,W 2SC1845(F,E) 2SD2493 2SB1624 2SC1845(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR				
2SA992(F.E.) 2SC1740S(Q.R.) 2SC2785(F.E.) 2SC2003(L.K.) 2SC1845(F.E.) 2SC3940A(R.S.) DTA113ZSA	2SA992(2SC174(2SC2786 2SC2003 2SC1846 2SC394(DTA1134		TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR	OR			
2SC1740S(Q,R) 2SC2785(F,E)	2SC1740 2SC2785	S(Q,R) (F,E)	TRANSISTOR TRANSISTOR				
	K:USA T:Europe	а ш	Canada R: Mexico Europe G: Germany	ico I: Malaysia many Q: Bussia	laysia ssia		

SPECIFICATIONS

Amplifier section	[General]	
Rated power output	Power consumption	180 W
80 W + 80 W (1 kHz, 10 % T.H.D. at 6 Ω)		W: 270 mm (10-5 / 8")
60 W + 60 W (1 kHz, 0.7 % T.H.D. at 6 Ω)		H: 104 mm (4-1/8")
Total harmonic distortion0.09 % (1 kHz, 30 W, 6 Ω)		D: 343 mm (13-1/2")
Signal to noise ratio	Weight (net)	4.6 kg (10.2 lb)
Line (AUX, MD)		
90 dB (1HF'A) (SOURCE DIRECT ON)		
Input sensitivity / Impedance		
Line (AUX, MD)200 mV / 47 kΩ		
MIC1.6 mV / 600 Ω		
Output level / Impedance		
SUPER WOOFER PRE OUT		
2.0 V / 2.2 kΩ (SOURCE DIRECT ON)		
MD REC200 mV / 2.2 kΩ		



- 1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
- 2. The full performance may not be exhibited in an extremely cold location (under a water freezing temperature) 3. Some items are C-H5~7.

Component and circuity are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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